

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amendmend): A method of manufacturing a magnetic disc cartridge comprising a casing formed of upper and lower shell halves mated together, a disc-like recording medium supported for rotation in the casing and a liner fixed to each of the inner surfaces of the upper and lower shell halves by ultrasonic welding by use of an ultrasonic welding horn, the liner having an outer contour defined by an outer peripheral edge, a central opening defined by an inner peripheral edge, and a slit-like cutaway portion defined by a pair of linear edges extending between the outer peripheral edge and the inner peripheral edge, which method is characterized in that

said ultrasonic welding horn is provided with a welding pattern in the form of a protrusion pattern formed on a welding face thereof over the entire welding area in which the ultrasonic welding horn is brought into contact with the liner, and the liner is welded to the inner surface of the shell half over the entire area of the liner along the welding pattern, and wherein the welding face of the welding horn has substantially the same shape and dimensions as the liner.

2. (original): A method as defined in Claim 1 in which said welding pattern is selected from a group consisting of a longitudinal stripe pattern, a transverse stripe pattern, a grid pattern and a radial pattern.

3. (original): A method as defined in Claim 1 in which the welding pattern is uniformly spaced over the entire area of the liner opposed to the recording area of the recording medium.

4. (original): A method as defined in Claim 1 in which the welding pattern is formed of a continuous protrusion.

5. (original): A method as defined in Claim 1 in which the welding pattern is formed of a plurality of discontinuous protrusions.

6. (canceled).

7. (canceled).

8. (canceled).

9. (canceled).

10. (canceled).

11. (withdrawn): A method of manufacturing a magnetic disc cartridge comprising a casing formed of upper and lower shell halves mated together, a disc-like recording medium supported for rotation in the casing and a liner fixed to each of the inner surfaces of the upper and lower shell halves, which method is characterized in that the surface of an edge portion of the liner facing the recording medium is made more distant from the recording medium than the other part of the liner and fixing agent is caused to soak into the edge portion and is solidified there.

12. (withdrawn): A method as defined in Claim 11 in which the surface of an edge portion of the liner facing the recording medium is made more distant from the recording medium than the other part of the liner by forming a recess in the inner surface of the shell half.

13. (withdrawn): A method as defined in Claim 11 in which the fixing agent is adhesive.

14. (withdrawn): A method as defined in Claim 11 in which the fixing agent is molten resin obtained by fusing a part of the shell half.

15. (currently amended): A magnetic disc cartridge comprising

a casing formed of upper and lower shell halves mated together,
a disc-like recording medium supported for rotation in the casing, and
a pair of liners respectively fixed to the inner surfaces of the upper and lower shell halves, each of the upper and lower shell halves being provided with a magnetic head insertion opening and each of the liners having a slit-like cutaway portion opposed to the magnetic head insertion opening of the corresponding shell half, wherein the improvement comprises that
a part of each of the liners extending upstream from the edge of the cutaway portion as seen in the direction of rotation of the recording medium is not fixed to the inner surface of the shell half so that the unfixed part can float from the inner surface of the shell half into contact with the surface of the recording medium.

16. (withdrawn): A magnetic disc cartridge as defined in Claim 15 in which at least an edge portion of the part of the unfixed part of the liner to be brought into contact with the recording medium is subjected to fiber fixing treatment for preventing hairiness and separation of fibers.

17. (currently amended): A magnetic disc cartridge as defined in Claim 15 in which the unfixed part is formed within 60° from the center of the magnetic head insertion window as measured in the direction of rotation of the recording medium.

18. (withdrawn): A magnetic disc cartridge as defined in Claim 15 further comprising a resilient member or a rigid member disposed between the unfixed part and the inner surface of the shell half to urge the unfixed part toward the recording medium.

19. (withdrawn): A method of cleaning a liner of a magnetic disc cartridge comprising a casing formed of upper and lower shell halves mated together, a disc-like recording medium supported for rotation in the casing and a pair of liners respectively fixed to the inner surfaces of the upper and lower shell halves, which method comprising the steps of

positioning each of the shell halves bearing thereon the liner fixed thereto with the surface of the liner opposed to a front end face of an ultrasonic welding horn at a predetermined space therefrom,

vibrating the liner by ultrasonic wave radiated from the front end face of the ultrasonic welding horn, and

blowing an air flow against the surface of the liner.

20. (withdrawn): A method of cleaning a liner as defined in Claim 19 in which the distance between the liner and the front end face of the ultrasonic welding horn is an integral multiple of a half wavelength of the ultrasonic wave as propagating in the air.

21. (withdrawn): A method of cleaning a liner as defined in Claim 19 in which the ultrasonic welding horn is moved relatively to the liner in a range including an integral multiple of a half wavelength of the ultrasonic wave as propagating in the air.

22. (withdrawn): A method of cleaning a liner of a magnetic disc cartridge comprising a casing formed of upper and lower shell halves mated together, a disc-like recording medium supported for rotation in the casing and a pair of liners respectively fixed to the inner surfaces of the upper and lower shell halves, which method comprising the steps of

bringing each of the shell halves bearing thereon the liner fixed thereto into contact with an ultrasonic welding horn,

vibrating the liner by ultrasonic wave applied to the shell half from the ultrasonic welding horn, and

blowing an air flow against the surface of the liner.

23. (withdrawn): A method as defined in Claim 22 in which the shell half is supported by an elastic means disposed on the side of the shell half remote from the ultrasonic welding horn.

24. (withdrawn): A method as defined in Claim 22 in which the shell half is placed on a support table supported by an air cylinder.

25. (previously presented): A method as defined in Claim 1 further comprising the step of cleaning said disc-like recording liners respectively fixed to the inner surfaces upper and lower shell halves, wherein the step of cleaning said liners further comprises;

positioning each of the shell halves bearing thereon the liner fixed thereto with the surface of the liner opposed to a front end face of an ultrasonic welding horn at a predetermined space therefrom, vibrating the liner by ultrasonic wave radiated from the front end face of the ultrasonic welding horn, and blowing an air flow against the surface of the liner.